

Abstract

The opening of an oil container 11 for storing oil 12 is sealed airtight with a cover member 32. A one-sided-bag-shaped fluid dynamic pressure bearing 10 is seated on an O-ring 25 and fixed airtight onto the upper surface of a bearing seating 30. In an exhaust position with the distal end portion of an injection tube 36 positioned away from an oil level, the inside of the oil container 11 is evacuated by a vacuum pump 22 through a suction/exhaust passage including a suction/exhaust through-hole 17, thus turning the inside of the one-sided-bag-shaped fluid dynamic pressure bearing (10) into a vacuum. In this state, a control device drives a moving device to raise the oil container 11 to an injection position and releases the suction/exhaust passage to the atmosphere. This causes the oil 12 to be injected into the one-sided-bag-shaped fluid dynamic pressure bearing 10 through an oil injection passage including the injection tube 36.